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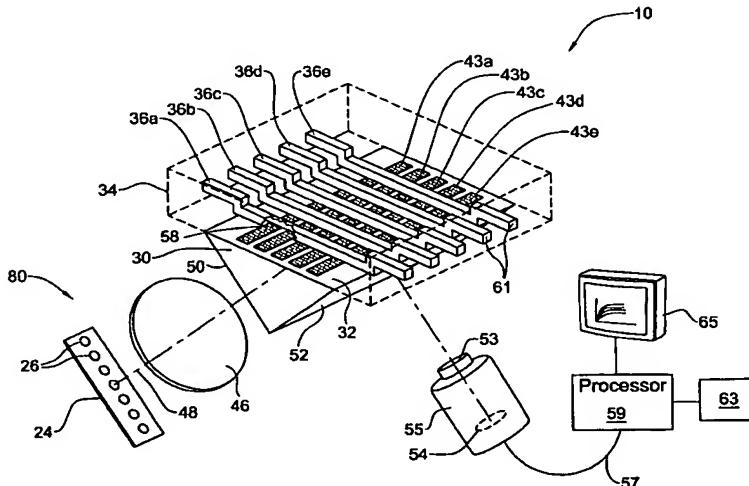
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(54) Title: SYSTEM AND METHOD FOR CARRYING OUT MULTIPLE BINDING REACTIONS IN AN ARRAY FORMAT



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**(57) Abstract:** A method for determining one or more kinetic parameters of binding between a first binding member and a second binding member. The method comprises adsorbing the first binding member to a surface at a plurality of microspots. The second binding member is then presented to the first binding member at each of the microspots, there being a plurality of combinations of first binding member surface density and second binding member concentration among the plurality of microspots. Data indicative of a binding reaction between the first of microspots are then obtained and analyzed so as to obtain one or more kinetic parameters of the binding between the first and second binding members. The invention also provides a system for carrying out the method. A method for localizing a molecular species at microspots on a surface, and a probe array produced by the method are also provided.



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